VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

SCREENING INFORMATION

This application is divided into four sections. Section A pertains to all applicants. The applicability of Sections B, C and D depends on your facility's sewage sludge use or disposal practices. The information provided on this page will help you determine which sections to fill out.

1.	All applicants must complete Section A (General Information).		
2.	Does this facility generate sewage sludge? _XX Yes No		
	Does this facility derive a material from sewage sludge? Yes _XX No		
	If you answered "Yes" to either, complete Section B (Generation Of Sewage Sludge or Preparation Of A Material Derived From Sewage Sludge).		
3.	Does this facility apply sewage sludge to the land? YesXX_ No		
	Is sewage sludge from this facility applied to the land? YesXX_ No		
	If you answer "No" to all above, skip Section C.		
If you answered "Yes" to either, answer the following three questions:			
	 Does the sewage sludge from this facility meet the ceiling concentrations, pollutant concentrations, Class A pathogen reduction requirements and one of the vector attraction reduction requirements 1-8, as identified in the instructions? Yes No 		
	 Is sewage sludge from this facility placed in a bag or other container for sale or give-away for application to the land? Yes No 		
	c. Is sewage sludge from this facility sent to another facility for treatment or blending? Yes No		
	If you answered "No" to all three, complete Section C (Land Application Of Bulk Sewage Sludge).		
	If you answered "Yes" to a, b or c, skip Section C.		
4.	Do you own or operate a surface disposal site? Yes _XX No		
	If "Yes", complete Section D (Surface Disposal).		

SECTION A. GENERAL INFORMATION

All applicants must complete this section.

2.

Fac	cility Information.
a.	Facility name:Picture Lake Campground
b.	Contact person:Ryan Porter
	Title:Manager
	Phone: (804) 861-0174
c.	Mailing address:
	Street or P.O. Box:7818 Boydton Plank Road
	City or Town:Petersburg State:VA Zip:23803
d.	Facility location:
	Street or Route #:Route 1, South of Petersburg
	County:Dinwiddie
	City or Town:NA State:VA Zip:23803
e.	Is this facility a Class I sludge management facility? Yes _XX No
f.	Facility design flow rate:013 mgd
g.	Total population served:175 sites
h.	Indicate the type of facility:
	Publicly owned treatment works (POTW)
	XX Privately owned treatment works
	Federally owned treatment works
	Blending or treatment operation
	Surface disposal site
	Other (describe):
Ap	plicant Information. If the applicant is different from the above, provide the following:
a.	Applicant name:H & B of Virginia, Inc
b.	Mailing address:
	Street or P.O. Box:7818 Boydton Plank Road
	City or Town:Petersburg State:VA Zip:23803
c.	Contact person:Ryan Porter
	Title:Manager
	Phone: (804) _861-0174
d.	Is the applicant the owner or operator (or both) of this facility? XX ownerXX operator
e.	Should correspondence regarding this permit be directed to the facility or the applicant? XX facility applicant
Per	rmit Information.
a.	Facility's VPDES permit number (if applicable):VA0070564
b.	List on this form or an attachment, all other federal, state or local permits or construction approvals received or applied for that regulate this facility's sewage sludge management practices:
	Permit Number: Type of Permit:
	NANA
	NANA

4.	Indian Country. Does any generation, treatment, storage, application to land or disposal of sewage sludge from this facility occur in Indian Country? Yes _XX No _If "Yes", describe:							
5.	that shows the following facility: a. Location of all severated, or dispose b. Location of all we	Provide a topographic map or ng information. Maps should wage sludge management fac ed. ells, springs, and other surfac 1/4 mile of the property bound	d include the area on cilities, including locate water bodies listed	ne mile beyond all properations where sewage s	perty boundaries of the sludge is generated, stored,			
6.	be employed during the sewage sludge, the dest and vector attraction re- holding tank. This is a and then aerated until	Line Drawing. Provide a line drawing and/or a narrative description that identifies all sewage sludge processes that will be employed during the term of the permit including all processes used for collecting, dewatering, storing, or treating sewage sludge, the destination(s) of all liquids and solids leaving each unit, and all methods used for pathogen reduction and vector attraction reduction Sludge is collected by diverting the return lines from the clarifier to the sludge holding tank. This is an aerated tank that is located next to the surge tank. The sludge is stored in this tank and is dewatere and then aerated until it is picked up by a contracted septic tank pump truck and hauled to the regional wastewater facility. The sludge is not treated during this process.						
7.		tion. Are any operational or osal the responsibility of a co			I to sewage sludge generation,			
	_	osai the responsibility of a co						
	-	Berberich T/A Johnny	•					
	Mailing address:	<u></u>	on the Spoi					
	-	6110 Plane Drive						
		Petersburg			23803			
	-	3-6292		1	_23003			
				is facility's sewage sluc	doe			
		Contractor's Federal, State or Local Permit Number(s) applicable to this facility's sewage sludge: 219-06H State Health Dept Number						
	If the contractor is resp provided to the applica	If the contractor is responsible for the use and/or disposal of the sewage sludge, provide a description of the service to be provided to the applicant and the respective obligations of the applicant and the contractor(s)The contractor hauls the sludge to the Regional Wastewater facility.						
8.	Pollutant Concentrations. Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants which limits in sewage sludge have been established in 9 VAC 25-31-10 et seq. for this facility's expected use o disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than four and one-half years oldUNKNOWN – No sludge monitoring conducted.							
	POLLUTANT	CONCENTRATION (mg/kg dry weight)	SAMPLE DATE	ANALYTICAL METHOD	DETECTION LEVEL FOR ANALYSIS			
	Arsenic	(mg/mg wil) g /		1122 -				
	Cadmium	1						
	Chromium	 						
	Copper							
	Lead							
	Mercury							
	Molybdenum							
	Nickel							
	Selenium							
	Zinc	·	1	1				

9.	Certification. Read and submit the following certification statement with this application. Refer to the instructions to determine who is an officer for purposes of this certification. Indicate which parts of the application you have completed and are submitting:				
	XX Section A (General Information)				
	XX Section B (Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge)				
	Section C (Land Application of Bulk Sewage Sludge)				
	Section D (Surface Disposal)				
	"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."				
	Name and official titleRyan Porter, Manager				
	Signature Date Signed				
	Telephone number (804) 861-0174				
	Upon request of the department, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements				

SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE

Complete this section if your facility generates sewage sludge or derives a material from sewage sludge

1.	Amount Generated On Site. Total dry metric tons per 365-day period generated at your facility:<1.0 dry metric tons					
2.	dis	Amount Received from Off Site. If your facility receives sewage sludge from another facility for treatment, use or disposal, provide the following information for each facility from which sewage sludge is received. If you receive sewage sludge from more than one facility, attach additional pages as necessary.				
	a.	Facility name: _NA				
	b.	Contact Person: NA				
		Title:NA				
		Phone: (NA)				
	c.	Mailing address:				
		Street or P.O. Box:NA				
		City or Town:NAState:NA Zip:NA				
	d.	Facility location:NA				
		(not P.O. Box)NA				
	e.	Total dry metric tons per 365-day period received from this facility:NA dry metric tons				
	f.	Describe, on this form or on another sheet of paper, any treatment processes known to occur at the off-site facility, including blending activities and treatment to reduce pathogens or vector attraction characteristics:				
		NA				
		NA				
3.	Tre	eatment Provided at Your Facility.				
	a.	Which class of pathogen reduction is achieved for the sewage sludge at your facility? Class A Class BXX Neither or unknown				
	b. Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce					
		pathogens in sewage sludge:NA				
	c.	Which vector attraction reduction option is met for the sewage sludge at your facility?				
		Option 1 (Minimum 38 percent reduction in volatile solids)				
		Option 2 (Anaerobic process, with bench-scale demonstration)				
		Option 3 (Aerobic process, with bench-scale demonstration)				
		Option 4 (Specific oxygen uptake rate for aerobically digested sludge)				
		Option 5 (Aerobic processes plus raised temperature)				
		Option 6 (Raise pH to 12 and retain at 11.5)				
		Option 7 (75 percent solids with no unstabilized solids)				
		Option 8 (90 percent solids with unstabilized solids)				
		XX None or unknown				
	d.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce vector				
		attraction properties of sewage sludge:NA				
	e.	Describe, on this form or another sheet of paper, any other sewage sludge treatment activities, including				
		blending, not identified in a - d above:NA				

4.		Preparation of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements and One of Vector Attraction Reduction Options 1-8 (EQ Sludge).				
	(If)	(If sewage sludge from your facility does not meet all of these criteria, skip Question 4.)				
	a.	Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land:				
		NA dry metric tons				
	b.	Is sewage sludge subject to this section placed in bags or other containers for sale or give-away? Yes No				
5.	Sal	e or Give-Away in a Bag or Other Container for Application to the Land.				
	•	mplete this question if you place sewage sludge in a bag or other container for sale or give-away prior to land lication. Skip this question if sewage sludge is covered in Question 4.)				
	a.	Total dry metric tons per 365-day period of sewage sludge placed in a bag or other container at your facility for				
		sale or give-away for application to the land:NA dry metric tons				
	b.	Attach, with this application, a copy of all labels or notices that accompany the sewage sludge being sold or given away in a bag or other container for application to the land.				
6.	Shi	pment Off Site for Treatment or Blending.				
	blei Ski	mplete this question if sewage sludge from your facility is sent to another facility that provides treatment or adding. This question does not apply to sewage sludge sent directly to a land application or surface disposal site. If the sewage sludge is covered in Questions 4 or 5. If you send sewage sludge to more than one clity, attach additional sheets as necessary.)				
	a.	Receiving facility name:Hopewell Regional Wastewater Facility				
	b.	Facility contact:Linda Newman				
		Title:Environmental Coordinator				
		Phone: (804)541-2210				
	c.	Mailing address:				
		Street or P.O. Box:2002 Cloverdale Avenue				
		City or Town:Hopewell State:VA Zip:23860				
	d.	Total dry metric tons per 365-day period of sewage sludge provided to receiving facility:<1.0 dry metric tons				
	e.	List, on this form or an attachment, the receiving facility's VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the receiving facility's sewage sludge use or disposal practices:				
		Permit Number: Type of Permit:				
		VA0066630VPDES				
	f.	Does the receiving facility provide additional treatment to reduce pathogens in sewage sludge from your facility? _XX Yes No				
		Which class of pathogen reduction is achieved for the sewage sludge at the receiving facility? Class A Class BXX Neither or unknown				
		Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce				
		pathogens in sewage sludge:				
	g.	Does the receiving facility provide additional treatment to reduce vector attraction characteristics of the sewage sludge? _XX_ Yes No				
		Which vector attraction reduction option is met for the sewage sludge at the receiving facility?				
		Option 1 (Minimum 38 percent reduction in volatile solids)				
		Option 2 (Anaerobic process, with bench-scale demonstration)				

__ Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge) _XX_ Option 5 (Aerobic processes plus raised temperature) Option 6 (Raise pH to 12 and retain at 11.5) Option 7 (75 percent solids with no unstabilized solids) Option 8 (90 percent solids with unstabilized solids) None unknown Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce vector attraction properties of sewage sludge: h. Does the receiving facility provide any additional treatment or blending not identified in f or g above? ____ Yes _XX_ No If "Yes", describe, on this form or another sheet of paper, the treatment processes not identified in f or g above: If you answered "Yes" to f, g or h above, attach a copy of any information you provide to the receiving facility to comply with the "notice and necessary information" requirement of 9 VAC 25-31-530.G. Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or give-away for application to the land? _____ Yes ____ No XX - Unknown If "Yes", provide a copy of all labels or notices that accompany the product being sold or given away. k. Will the sewage sludge be transported to the receiving facility in a truck-mounted watertight tank normally used for such purposes? XX Yes No. If "No", provide description and specification on the vehicle used to transport the sewage sludge to the receiving facility. Show the haul route(s) on a location map or briefly describe the haul route below and indicate the days of the week and the times of the day sewage sludge will be transported. ____4 times per year_____ __Route followed is Route 1 north to Interstate 85 north _____ 7. Land Application of Bulk Sewage Sludge. (Complete Ouestion 7.a if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in Questions 4, 5 or 6. Complete Question 7.b, c & d only if you are responsible for land application of sewage sludge.) a. Total dry metric tons per 365-day period of sewage sludge applied to all land application sites: NA __ dry metric tons b. Do you identify all land application sites in Section C of this application? _____ Yes _____ No If "No", submit a copy of the Land Application Plan (LAP) with this application (LAP should be prepared in accordance with the instructions). c. Are any land application sites located in States other than Virginia? _____ Yes _____ No If "Yes", describe, on this form or on another sheet of paper, how you notify the permitting authority for the States where the land application sites are located. Provide a copy of the notification. d. Attach a copy of any information you provide to the owner or lease holder of the land application sites to comply with the "notice and necessary" information requirement of 9 VAC 25-31-530 F and/or H (Examples may be obtained in Appendix IV).

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FACILITY NAME: PICTURE LAKE CAMPGROUND

8. Surface Disposal.

(Co	Complete Question 8 if sewage sludge from your facility is placed on a surface disposal site.)					
a.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on all surface disposal					
	sites:NA dry metric tons					
b.	Do you own or operate all surface disposal sites to which you send sewage sludge for disposal? Yes No					
	If "No", answer questions c - g for each surface disposal site that you do not own or operate. If you send sewage sludge to more than one surface disposal site, attach additional pages as necessary.					
c.	Site name or number:					
d.	Contact person:					
	Title:					
	Phone: ()					
	Contact is: Site Owner Site operator					
e.	Mailing address:					
	Street or P.O. Box:					
	City or Town: State: Zip:					
f.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface disposal					
	site: dry metric tons					
g.	List, on this form or an attachment, the surface disposal site VPDES permit number as well as the numbers of all othe federal, state or local permits that regulate the sewage sludge use or disposal practices at the surface disposal site: Permit Number: Type of Permit:					
Inc	cineration.					
(Co	Complete Question 9 if sewage sludge from your facility is fired in a sewage sludge incinerator.)					
a.						
	incinerator:NA dry metric tons					
b.	Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired? Yes No					
	If "No", answer questions c - g for each sewage sludge incinerator that you do not own or operate. If you send sewage sludge to more than one sewage sludge incinerator, attach additional pages as necessary.					
c.	Incinerator name or number:					
d.	Contact person:					
	Title:					
	Phone: ()					
	Contact is: Incinerator Owner Incinerator Operator					
e.	Mailing address:					
	Street or P.O. Box:					
	City or Town: State: Zip:					
f.	Total dry metric tons per 365-day period of sewage sludge from your facility fired in this sewage sludge incinerator: dry metric tons					
g.						

	of sewage sludge at thi	is incinerator:			
	Permit Number:	Type of Permit:			
Dis	sposal in a Municipal S	Solid Waste Landfill.			
fol	lowing information for	each municipal solid	ur facility is placed on a mi waste landfill on which sewo cipal solid waste landfill, ati	age sludge from your faci	lity is placed. If
a.	Landfill name:	NA			
b.	Contact person:				
	Title:				
	Phone: ()				
	Contact is: Lan	ndfill Owner	Landfill Operator		
c.	Mailing address:				
	Street or P.O. Box:				
			State:		
d.	Landfill location.				
	Street or Route #:				
	County:				
	City or Town:		State:	Zip:	
e.	Total dry metric tons p	per 365-day period of s	ewage sludge placed in this	municipal solid waste land	fill:
	dry me	etric tons			
f.	List, on this form or ar municipal solid waste	al permits that regulate the	e operation of this		
	Permit Number:	Type of Permit:			
g.		the quality of materials	ments in the Virginia Solid W s disposed in a municipal sol		tion, 9 VAC 20-8
h.			ly with all applicable criteria seq.? Yes N		olid Waste
i.		r other container used td? Yes	o transport sewage sludge to No	the municipal solid waste	landfill be
	Show the haul route(s)	on a location map or b	oriefly describe the route bel-	ow and indicate the days o	f the week
	and time of the day sev				

SECTION C. LAND APPLICATION OF BULK SEWAGE SLUDGE

Complete this section for sewage sludge that is land applied unless any of the following conditions apply:

- The sewage sludge meets the Table 1 ceiling concentrations, the Table 3 pollutant concentrations, Class A pathogen requirements and one of the vector attraction reduction options 1-8 (fill out B.4 instead) (EQ Sludge); or
- The sewage sludge is sold or given away in a bag or other container for application to the land (fill out B.5 instead); or
- You provide the sewage sludge to another facility for treatment or blending (fill out B.6 instead).

Complete Section C for every site on which the sewage sludge that you reported in B.7 is land applied.

1.	Ide	ntification of Land Application Site.						
	a.	Site name or number:						
	b.	Site location (Complete i and ii)						
		i. Street or Route#:						
		County:						
		City or Town: State: Zip:						
		ii. Latitude: Longitude:						
		Method of latitude/longitude determination USGS map Filed survey Other						
	c.	Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location.						
2.	Ov	vner Information.						
	a.	Are you the owner of this land application site? Yes No						
	b.	If "No", provide the following information about the owner:						
		Name:						
		Street or P.O. Box:						
		City or Town: State: Zip:						
		Phone: ()						
3.	An	plier Information:						
	a.	Are you the person who applies, or who is responsible for application of, sewage sludge to this land application site? Yes No						
	b. If "No", provide the following information for the person who applies the sewage sludge:							
		Name:						
		Street or P.O. Box:						
		City or Town: State: Zip:						
		Phone: ()						
	c. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site:							
		Permit Number: Type of Permit:						
4.	Sit	e Type. Identify the type of land application site from among the following:						
		Agricultural land Reclamation site Forest						
		Public contact site Other (describe						
5.	Ve	ctor Attraction Reduction.						
٠.		e any vector attraction reduction requirements met when sewage sludge is applied to the land application site?						
		Yes No If "Yes", answer a and b.						

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a.	Indicate which vector attraction reduction option is met:				
	Option 9 (Injection below land surface)				
	Option 10 (Incorporation into soil within 6 hours)				
b.	Describe, on this form or on another sheet of paper, any treatment processes used at the land application site to reduce the vector attraction properties of sewage sludge:				
Cu					
	omplete Question 6 only if the sewage sludge applied to this site since July 20, 1993 is subject to the cumulative llutant loading rates (CPLRs) - see instructions.)				
a.	Have you contacted DEQ or the permitting authority in the state where the sewage sludge subject to the CPLRs will be applied to ascertain whether bulk sewage sludge subject to the CPLRs has been applied to this site since July 20, 1993? Yes No				
	If "No", sewage sludge subject to the CPLRs may not be applied to this site.				
	If "Yes", provide the following information:				
	Permitting authority:				
	Contact person:				
	Phone: ()				
b.	Based upon this inquiry, has bulk sewage sludge subject to the CPLRs been applied to this site since July 20, 1993? Yes No If "No", skip the rest of Question 6. If "Yes", answer questions c - e.				
c.	Site size, in hectares: (one hectare = 2.471 acres)				
d.	Provide the following information for every facility other than yours that is sending or has sent sewage sludge subject to the CPLRs to this site since July 20, 1993. If more than one such facility sends sewage sludge to this site, attach additional pages as necessary.				
	Facility name:				
	Facility contact:				
	Title:				
	Phone: ()				
	Mailing address.				
	Street or P.O. Box:				
	City or Town: State: Zip:				
e.	Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants:				
	Cumulative loading Allotment remaining				
	Arsenic				
	Cadmium				
	Copper				
	Lead				
	Mercury				
	Nickel				
	Selenium				
	Zinc				

Complete Questions 7-12 below only if you apply sewage sludge, or you are responsible for land application of sewage sludge. Information required by these questions may be prepared as attachments to this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation.

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Sludge Characterization. Use the table	e below or a separate attachment, provide at least one analysis for each parameter.
PCBs (mg/kg)	
pH (S. U.)	
Percent Solids (%)	
Ammonium Nitrogen (mg/kg)	
Nitrate Nitrogen (mg/kg)	
Total Kjeldahl Nitrogen (mg/kg)	
Total Phosphorus (mg/kg)	
Total Potassium (mg/kg)	

8. Storage Requirements.

Existing and proposed sludge storage facilities must provide an estimated annual sludge balance on a monthly basis incorporating such factors as storage capacity, sludge production and land application schedule. Include pertinent calculations justifying storage requirements.

Proposed sludge storage facilities must also provide the following information:

- a. A sludge storage site layout on a 7.5 minute topographic quadrangle or other appropriate scaled map to show the following topographic features of the surrounding landscape to a distance of 0.25 mile. Clearly mark the property line.
 - 1) Water wells, abandoned or operating
 - 2) Surface waters
 - 3) Springs
 - 4) Public water supply(s)

Alkalinity as CaCO₃* (mg/kg)

- 5) Sinkholes
- 6) Underground and/or surface mines
- 7) Mine pool (or other) surface water discharge points
- 8) Mining spoil piles and mine dumps
- 9) Quarry(s)
- 10) Sand and gravel pits
- 11) Gas and oil wells
- 12) Diversion ditch(s)
- 13) Agricultural drainage ditch(s)
- 14) Occupied dwellings, including industrial and commercial establishments
- 15) Landfills or dumps
- 16) Other unlined impoundments
- 17) Septic tanks and drainfields
- 18) Injection wells
- 19) Rock outcrops
- b. A topographic map of sufficient detail to clearly show the following information:
 - 1) Maximum and minimum percent slopes
 - 2) Depressions on the site that may collect water
 - 3) Drainageways that may attribute to rainfall run-on to or runoff from this site
 - 4) Portions of the site (if any) which are located with the 100-year floodplain and how the storage facility will be protected from flooding
- c. Data and specifications for the storage facility lining material.
- d. Plan and cross-sectional views of the storage facility.
- e. Depth from the bottom of the storage facility to the seasonal high water table and separation distance to the permanent water table.
- **9.** Land Area Requirements. Provide calculations justifying the land area requirements for land application of sewage sludge taking into consideration average soil productivity group, crop(s) to be grown and most limiting factor(s) of the sewage sludge, specifically Plant Available Nitrogen (PAN), Calcium Carbonate Equivalence (CCE), and metal loadings

Lime treated sludge (10% or more lime by dry weight) should be analyzed for percent CaCO₃.

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(CPLR sewage sludge only), where applicable. Relate PAN, CCE, and metal loadings to demonstrate the most limiting factor for land application.

10. Landowner Agreement Forms. Provide a properly completed Sewage Sludge Application Agreement Form (attached) for each landowner if sewage sludge is to be applied onto land not owned by the applicant.

11. Ground Water Monitoring.

Are any ground water monitoring data available for this land application site? _____ Yes _____ No

If "Yes", submit the ground water monitoring data with this permit application. Also submit a written description of the well locations, approximate depth to ground water, and the ground water monitoring procedures used to obtain these data.

12. Land Application Site Information.

(Complete Items a-d for sites receiving infrequent application - land application of sewage sludge up to the agronomic rate at a frequency of once in a 3 year period; complete Items a-h for sites receiving frequent application - land application of sewage sludge in excess of 70% the agronomic rate at a frequency greater than once in a 3 year period)

- a. Provide a general location map for each county which clearly indicates the location of all the land application sites.
- b. For each land application site provide a site plan of sufficient detail to clearly show the concerned landscape features and associated buffer zones (See instructions). Provide a legend for each landscape feature and the net acreage for each field taking into account the proposed buffer zones.
- c. In order to ensure that land application of bulk sewage sludge will not impact federally listed threatened or endangered species or federally designated critical habitat, the applicant must notify the field office of the U. S. Department of the Interior, Fish and Wildlife Service (FWS), by a letter, the proposed land application activities with the identification of the land application sites. The address and phone number of FWS are provided below.

U.S. Fish and Wildlife Service Virginia Field Office P.O. Box 480

White Marsh, VA 23183 TEL: (804) 693-6694

Provide a copy of the notification letter with this application form.

d. Provide a soil survey map, preferably photographically based, with the field boundaries clearly marked. (A USDA-SCS soil survey map should be provided, if available.)

Provide a detailed legend for each soil survey map which uses accepted USDA-SCS descriptions of the typifying pedon for each soil series (soil type). Complex associations may be described as a range of characteristics. Soil descriptions shall include as a minimum the following information.

- 1) Soil symbol
- 2) Soil series, textural phase and slope range
- 3) Depth to seasonal high water table
- 4) Depth to bedrock
- 5) Estimated soil productivity group (for the proposed crop rotation)

Item e - h are required for sites receiving frequent application of sewage sludge

- e. In order to verify the information provided in item d, characterize the soil at each land application site. Representative soil borings or test pits to a depth of five feet or to bedrock if shallower, are to be coordinated for the typifying pedon of each soil series (soil type). Soil descriptions shall include as a minimum the following information:
 - 1) Soil symbol
 - 2) Soil series, textural phase and slope range
 - 3) Depth to seasonal high water table
 - 4) Depth to bedrock
 - 5) Estimated soil productivity group (for the proposed crop rotation)
- f. Collect and analyze soil samples from each field, weighted to best represent each of the soil borings performed for Item e. Using the table below or a separate attachment, provide at least one analysis per sample for each of the following parameters.

Soil Organic Matter (%)	
Soil pH (std. units)	

Cation Exchange Capacity (meq/100g) Total Nitrogen (ppm) Organic Nitrogen (ppm) Ammonia Nitrogen (ppm) Nitrate Nitrogen (ppm) Available Phosphorus (ppm) Exchangeable Potassium (mg/100g) Exchangeable Sodium (mg/100g) Exchangeable Calcium (mg/100g) Exchangeable Magnesium (mg/100g) Arsenic (ppm) Cadmium (ppm) Copper (ppm) Lead (ppm) Mercury (ppm) Molybdenum (ppm) Nickel (ppm) Selenium (ppm) Zinc (ppm)

FACILITY NAME: PICTURE LAKE CAMPGROUND

g. Relate the crop nutrient needs to anticipated yields, soil productivity rating and the various fertilizer or nutrient sources from sludge and chemical fertilizers. Describe any specialized agronomic management practices which may be required as a result of high soil pH. If the sludge is expected to possess an unusually high CCE or other unusual properties, provide a description of any plant tissue testing, supplemental fertilization or intensive agronomic management practices which may be necessary.

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h. Using a narrative format and referencing any related charts, describe the proposed cropping system. Show how the crop rotation and management will be coordinated with the design of the land application system. Include any supplemental fertilization program, soil testing and the coordination of tillage practices, planting and harvesting schedules and timing of land application.

Manganese (ppm)

Particle Size Analysis or USDA Textural Estimate (%)

SEWAGE SLUDGE APPLICATION AGREEMENT

Th	is sewage sludge application agreement is made on this da	ite	between		
	, referred to here as				
ref	erred to here as the "Permittee".				
Laı	ndowner is the owner of agricultural land shown on the ma	ap attached as Exhibit A and designated	I there as		
	("landowner's land" tain permit requirements following application of sewage). Permittee agrees to apply and landor sludge on landowner's land in amounts			
a n	nanner authorized by VPDES permit number	which is held by the Peri	mittee.		
cor hea	ndowner acknowledges that the appropriate application of nditioning to the property. Moreover, landowner acknowledth, the following site restrictions must be adhered to whe fluction:	edges having been expressly advised th	at, in order to protect public		
1.	Food crops with harvested parts that touch the sewage sl be harvested for 14 months after application of sewage s	•	the land surface shall not		
2.	Food crops with harvested parts below the surface of the sewage sludge when the sewage sludge remains on the lasoil;				
3.	Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of sewage sludge when the sewage sludge remains on the land surface for less than four months prior to incorporation into soil;				
4.	Food crops, feed crops, and fiber crops shall not be harv	vested for 30 days after application of se	ewage sludge;		
5.	Animals shall not be grazed on the land for 30 days after	r application of sewage sludge;			
6.	Turf grown on land where sewage sludge is applied shall not be harvested for one year after application of the sewage sludge when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the State Water Control Board;				
7.	Public access to land with a high potential for public exposure shall be restricted for one year after application of sewage sludge;				
8.	Public access to land with a low potential for public exp sludge.	osure shall be restricted for 30 days after	er application of sewage		
9.	Tobacco, because it has been shown to accumulate cadn following the application of sewage sludge borne cadmi		•		
spe	rmittee agrees to notify landowner or landowner's designed ecifically prior to any particular application to landowner's atten notice to the address specified below.				
	Landowner:	Permittee:			
	Signature	Signature			
	Mailing Address	Mailing Address			

SECTION D. SURFACE DISPOSAL

Complete this section only if you own or operate a surface disposal site. Provide the information for each active sewage sludge unit.

Ir	11011	mation on Active Sewage Sludge Units.					
a.	U	Unit name or number:					
b.	U	Unit location					
	i.	Street or Route#:					
		County:					
		City or Town:		State:	2	Zip:	
	ii.	i. Latitude:	Longitude:				
		Method of latitude/longitude determinated USGS map Filed sur		_ Other			
c. Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable shows the site location.						ilable) that	
d.	T	Total dry metric tons of sewage sludge placed	d on the active sew	vage sludge uni	t per 365-da	ay period:	
	_	dry metric tons.					
e.	T	Total dry metric tons of sewage sludge placed	d on the active sew	vage sludge uni	t over the li	fe of the unit:	
	_	dry metric tons.					
f.	·						
g.		Does the active sewage sludge unit have a lea	•				
g.	If	Does the active sewage sludge unit have a lear "Yes", describe the leachate collection system is posal and provide the numbers of any federal	em or attach a des	cription. Also,	describe th	ne method use	d for leacha
g.	If di	f "Yes", describe the leachate collection syste	em or attach a des ral, state or local p the following: nit less than 150 n	permits for leac	describe the hate dispose	ne method used	
	Iff di	f "Yes", describe the leachate collection system is posal and provide the numbers of any federal form of the active sewage sludge upon the form of the form	em or attach a des ral, state or local p the following: nit less than 150 n yide the actual dist	permits for leace	describe the hate dispose	ne method used	
h.	If di	f "Yes", describe the leachate collection system is posal and provide the numbers of any federal form of the numbers of any federal form of the set of the	em or attach a des ral, state or local put the following: nit less than 150 novide the actual distant, in dry metric	neters from the tance in meters:	property lindry n	ne method used	ce disposal
h.	Iff did in the control of the contro	f "Yes", describe the leachate collection system is posal and provide the numbers of any federal fishers and provide the numbers of any federal fishers. It is a substitute of the active sewage sludge unite? Yes No If "Yes", provide the active sewage sludge unite? Yes No Remaining capacity of active sewage sludge united the sewage sludge	the following: nit less than 150 n yide the actual dist	neters from the tance in meters:	property lin dry n	ne of the surfa	ce disposal
h.	Iff did did did did did did did did did d	f "Yes", describe the leachate collection systematic sy	the following: nit less than 150 n yide the actual dist	neters from the tance in meters:	property lin dry n	ne of the surfa	ce disposal
h. i.	Iff did did did did did did did did did d	f "Yes", describe the leachate collection systematic possible of any federal fishers and provide the numbers of any federal fishers and provide the numbers of any federal fishers and provide the numbers of any federal fishers and provide with the leachate collection systematic possible of any federal fishers. It is a support of a strength of the leachate collection and provide with this application a copy of any clean fishers.	the following: nit less than 150 n ride the actual dist unit, in dry metric udge unit, if known osure plan develop	neters from the tance in meters: tons: ped for this acti	property linder dry notes that the dispose that the dispo	ne of the surfa ne of the surfa netric tons (MM/DD/sludge unit.	ace disposal
h. i. See Is	Iff did	f "Yes", describe the leachate collection systematic possible of the numbers of any federal forms and provide with the series of the forms and provide with this application a copy of any close Sludge from Other Facilities.	the following: nit less than 150 n yide the actual dist unit, in dry metric udge unit, if known osure plan develop	neters from the tance in meters: tons: ped for this activities other than	property lindry notice sewage	ne of the surfa- netric tons (MM/DD/sludge unit.	ace disposal
h. i. See Is	Iff did	f "Yes", describe the leachate collection system is posal and provide the numbers of any federal forms of any federal forms and provide the numbers of any federal forms and provide the numbers of any federal forms and provide the following information system. It is possible to the following information for each forms of the following information for each forms of the following information for each forms of the following information for each following informatio	the following: nit less than 150 n ride the actual dist unit, in dry metric udge unit, if known osure plan develop unit from any fac ch such facility, at	neters from the tance in meters: ped for this activities other that ttach additional	property linder dry notice sewage an yours?	ne method used al: ne of the surfared netric tons (MM/DD/sludge unit. Yes	ce disposal
h. i. See Iss	Iff did did did did did did did did did d	f "Yes", describe the leachate collection systematic sy	the following: nit less than 150 n yide the actual dist unit, in dry metric udge unit, if known osure plan develor unit from any fac ch such facility, at	neters from the tance in meters: n: ped for this acti ilities other that tach additional	property linder dry not see sewage an yours?	ne method used al: ne of the surfate and alice and alic	YYYY)
h. See Iss Iff a.	Iff did did did did did did did did did d	f "Yes", describe the leachate collection system is posal and provide the numbers of any federal forms of any federal forms and provide the numbers of any federal forms and provide the numbers of any federal forms and provide with the active sewage sludge understanding capacity of active sewage sludge understanding capacity of active sewage sludge understanding capacity of active sewage sludge and provide with this application a copy of any closure sludge from Other Facilities. The series of the sewage sludge and provide the following information for each facility name: Facility contact:	the following: nit less than 150 n ride the actual dist unit, in dry metric udge unit, if known osure plan develop unit from any fac ch such facility, at	neters from the tance in meters: ped for this activities other that ttach additional	property linder dry notice sewage an yours?	ne method used al: ne of the surfate and alice and alic	YYYY)
h. See Iss Iff a.	Iff did did did did did did did did did d	f "Yes", describe the leachate collection systematics and provide the numbers of any federal forms and provide the active sewage sludge under the provide with this application a copy of any closure date for active sewage sludge from Other Facilities. In the provide with this application a copy of any closure sewage sludge from Other Facilities. In the provide with this application a copy of any closure sewage sludge sent to this active sewage sludge from Other Facilities. In the provide with this application information for each facility name:	the following: nit less than 150 n yide the actual dist unit, in dry metric udge unit, if known osure plan develor unit from any fac ch such facility, at	neters from the tance in meters: tons: ped for this activities other that tach additional	property linder dry notice sewage an yours?	ne method used al: ne of the surfate and alice and alic	YYYY)
h. See Iss Iff a.	Iff did did did did did did did did did d	f "Yes", describe the leachate collection system is posal and provide the numbers of any federal for you answered "No" to either f or g, answer is the boundary of the active sewage sludge unite? Yes No If "Yes", provide active sewage sludge understand the collection of active sewage sludge understand closure date for active sewage sludge and provide with this application a copy of any closure sludge from Other Facilities. The sewage sludge sent to this active sewage sludge es", provide the following information for each cacility name:	the following: nit less than 150 n yide the actual dist unit, in dry metric udge unit, if known osure plan develor unit from any fac ch such facility, at	neters from the tance in meters: tons: ped for this activities other that tach additional	property linder dry notice sewage an yours?	ne method used al: ne of the surfate and alice and alic	YYYY)
h. See Is If a. b.	Iff did did did did did did did did did d	f "Yes", describe the leachate collection systematics and provide the numbers of any federal forms and provide the active sewage sludge under the provide with this application a copy of any closure date for active sewage sludge and provide with this application a copy of any closure sludge from Other Facilities. The provide the following information for each facility name: **Gracility contact:** **Gracility contact:** **Critic:** **Critic:** **Critic:** **Title:** **Title:* **Title:** **Title	the following: nit less than 150 n yide the actual dist unit, in dry metric udge unit, if known osure plan develor unit from any fac ch such facility, at	neters from the tance in meters: tons: ped for this activities other that	property linder dry notice sewage in yours?	ne method used al: ne of the surfate and alice and alic	YYYY)

FACILITY NAME: PICTURE LAKE CAMPGROUND VPDES PERMIT NUMBER: VA0070564 d List on this form or an attachment, the facility's VPDES permit number as well as the numbers of all other federal

a.	state or local permits that regulate the facility's sewage sludge management practices:					
	Permit Number: Type of Permit:					
e.	Which class of pathogen reduction is achieved before sewage sludge leaves the other facility? Class A Class B Neither or unknown					
f.	Describe, on this form or on another sheet of paper, any treatment processes used at the other facility to reduce					
	pathogens in sewage sludge:					
g.	Which vector attraction reduction option is achieved before sewage sludge leaves the other facility?					
	Option 1 (Minimum 38 percent reduction in volatile solids)					
	Option 2 (Anaerobic process, with bench-scale demonstration)					
	Option 3 (Aerobic process, with bench-scale demonstration)					
	Option 4 (Specific oxygen uptake rate for aerobically digested sludge)					
	Option 5 (Aerobic processes plus raised temperature)					
	Option 6 (Raise pH to 12 and retain at 11.5)					
	Option 7 (75 percent solids with no unstabilized solids)					
	Option 8 (90 percent solids with unstabilized solids)					
	None or unknown					
h.	Describe, on this form or another sheet of paper, any treatment processes used at the other facility to reduce					
	vector attraction properties of sewage sludge:					
i.	Describe, on this form or another sheet of paper, any other sewage sludge treatment activities performed by the					
	other facility that are not identified in e - h above:					
Ve	ctor Attraction Reduction.					
a.	Which vector attraction reduction option, if any, is met when sewage sludge is placed on this active sewage sludge unit?					
	Option 9 (Injection below land surface)					
	Option 10 (Incorporation into soil within 6 hours)					
	Option 11 (Covering active sewage sludge unit daily)					
b.	Describe, on this form or another sheet of paper, any treatment processes used at the active sewage sludge unit					
	to reduce vector attraction properties of sewage sludge:					
Gr	ound Water Monitoring.					
a.	Is ground water monitoring currently conducted at this active sewage sludge unit or are ground water monitoring data otherwise available for this active sewage sludge unit? Yes No					
	If "Yes", provide a copy of available ground water monitoring data. Also provide a written description of the well					
	locations, the approximate depth to ground water, and the ground water monitoring procedures used to obtain these					

3.

		data.
	b.	Has a ground water monitoring program been prepared for this active sewage sludge unit? Yes NoIf "Yes", submit a copy of the ground water monitoring program with this application.
	c.	Have you obtained a certification from a qualified ground water scientist that the aquifer below the active sewage sludge unit has not been contaminated? Yes No
		If "Yes", submit a copy of the certification with this application.
5.	Site	e-Specific Limits.
		e you seeking site-specific pollutant limits for the sewage sludge placed on the active sewage sludge unit? YesNo If "Yes", submit information to support the request for site-specific pollutant limits with this blication.